

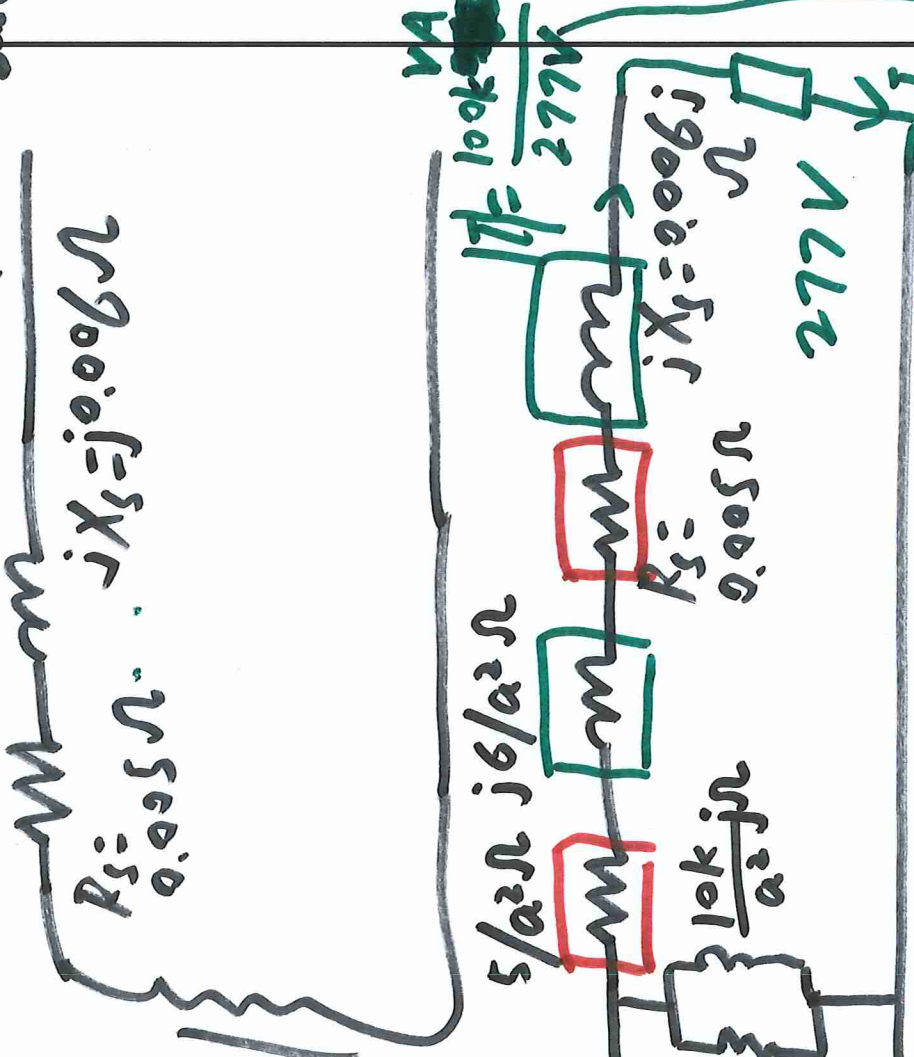
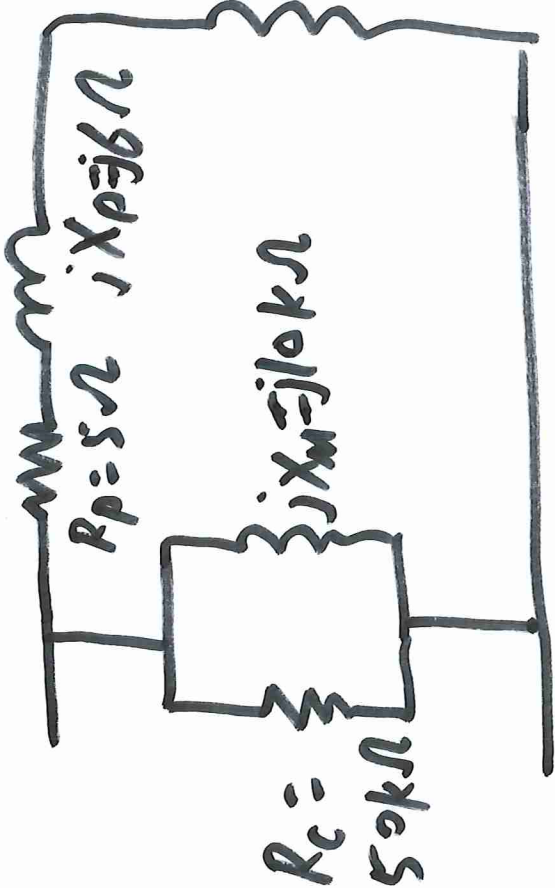
$$a = \frac{8000}{277}$$

$$S_{base} = 100 \text{ kVA}$$

$$V_{base} = 277 \text{ V}$$

$$Z_{base} = \frac{V_{base}^2}{S_{base}}$$

$$8000 : 277$$



$$\eta = \frac{P_{out}}{P_{in}} \times 100\%$$

$$I = 1 \angle -\cos^{-1} 0.85$$

$$277 \angle 0^\circ \text{ V}$$

$$277 \text{ V}$$

$$I = \frac{100 \text{ kVA}}{277 \text{ V}}$$